

Claims

1. An electrical machine, in particular a generator, with a shaft (42), a hub (54), and an annular gap (81) which is formed between the shaft (42), or at least one first component (69) non-rotatably connected to the shaft (42), and the hub (54), or at least one second component (78) non-rotatably connected to the hub (54), characterized in that the annular gap (81) is at least partially filled with a pasty material (84), in particular grease.

2. The electrical machine according to claim 1, characterized in that the annular gap (81) is at least partially U-shaped and free leg ends (90, 91) of a U-shaped region (87) of the annular gap (81) are directed radially inward.

3. The electrical machine according to claim 2, characterized in that the first component (69) has a radially outward protruding, annular disk-shaped collar (93) which separates the free leg ends (90, 91) from each other.

4. The electrical machine according to claim 3, characterized in that the collar (93) engages in a recess (96) of the hub (54) or engages the at least one second component (78).

5. The electrical machine according to claim 4, characterized in that the hub (54) is supported so that it can rotate in relation to the shaft (42) by means of a roller bearing (34), wherein the roller bearing (34) has at least one sealing disk (99), which is oriented radially.

6. The electrical machine according to claim 5,
characterized in that the collar (93) is embodied on the
first component (69), which serves as a spacer ring (102)
for a shaft-side bearing ring (38) of the roller bearing
(34).

7. The electrical machine according to claim 6,
characterized in that the recess (96) is disposed in a
covering cap (72) constituted by the second component (78).

8. The electrical machine according to claim 7,
characterized in that the U-shaped region (87) of the
annular gap (81) is at least partially adjoined by the
sealing disk (99).

9. The electrical machine according to claim 8,
characterized in that the covering cap (72) serves to
axially secure a hub-side bearing ring (46) of the roller
bearing (34).